

IN THE CLAIMS:

Please cancel claims 24 and 25, without prejudice, and amend the following claim.

23. (Amended) A method of producing antibodies to [a lymphadenopathy associated virus antigen] an antigen of human immunodeficiency virus type 1 (HIV-1), said method comprising:

(a) providing an antigen of HIV-1, wherein said antigen is the expression product of a host transformed with a vector containing a [DNA] nucleic acid fragment of plasmid  $\lambda$ -J19, and wherein said [DNA] nucleic acid fragment comprises the restriction [sites *Hind*III, and *Sac*I, and a first *Bgl*II restriction site, from the 3' end to the 5' end, said method comprising expressing antigens encoded by said DNA fragment and raising antibodies against said antigens] site *Hind*III at about coordinate 9250, the restriction site *Sac*I at about coordinate 9200, and the restriction site *Bgl*II at about coordinate 9150;

(b) raising antibodies against said antigen, and

(c) recovering said antibodies.

Please add the following claims.

--32. A method of producing antibodies to an antigen of human immunodeficiency virus type 1 (HIV-1), said method comprising:

(a) providing an antigen of HIV-1, wherein said antigen is the expression product of a host transformed with a vector containing a nucleic acid fragment of plasmid  $\lambda$ -J19, and

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wherein said nucleic acid fragment comprises the restriction site *HindIII* at about coordinate 9250, the restriction site *SacI* at about coordinate 9200, the restriction site *BglII* at about coordinate 9150, the restriction site *BglII* at about coordinate 8750, and the restriction site *KpnI* at about coordinate 8700,

- (b) raising antibodies against said antigen, and  
(c) recovering said antibodies.

33. A method of producing antibodies to an antigen of human immunodeficiency virus type 1 (HIV-1), said method comprising:

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(a) providing an antigen of HIV-1, wherein said antigen is the expression product of a host transformed with a vector containing a nucleic acid fragment of plasmid  $\lambda$ -J19, and wherein said nucleic acid fragment comprises the restriction site *HindIII* at about coordinate 9250, the restriction site *SacI* at about coordinate 9200, the restriction site *BglII* at about coordinate 9150, the restriction site *BglII* at about coordinate 8750, the restriction site *KpnI* at about coordinate 8700, the restriction site *XhoI* at about coordinate 8600, the restriction site *BamHI* at about coordinate 8150, the restriction site *HindIII* at about coordinate 7850, and the restriction site *BglII* at about coordinate 7600,

- (b) raising antibodies against said antigen, and  
(c) recovering said antibodies.--